Ref	Hits	Search Query	DBs	Default	Plurais	Time,Stamp
# S1	2	"20050114094"		Operator AND		
21	2		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/03/14 14:31
S2	18	"lithography optimization"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/03/14 13:32
S4	8	S2 stack .	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/03/07 14:45
SS	2	S4 reflectivity	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/03/07 13:55
S 6	10	"optimal reflectivity value"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/03/07 14:48
57	6	"reflectivity optimization" .	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/03/07 16:20
S11	0	"lithography optimiza\$8"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/03/07 16:13
\$12	18	lithography adj optimiza\$8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/03/07 16:13
S13	108	lithography adj5 optimiza\$8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/03/07 16:14
S14	98	fithography adj4 optimiza\$8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	AND	ON	2007/03/07 16:14
S15	318	lithography with optimiza\$8	IBM_TDB US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/03/07 16:16
S17	1	\$15 "R+\$"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	AND	ON	2007/03/07 16:17
S18	0	S15 "Reflectivity plus Sensitivity"	IBM_TDB US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/03/07 16:17
519	0	"Reflectivity plus Sensitivity"		AND	ON	2007/03/07 16:17

S20	2	"Reflectivity" with "Sensitivity" with cost with function .	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	AND	ON	2007/03/07 16:18
			DERWENT; IBM_TDB			
521	30	"Reflectivity" with "Sensitivity" with cost	US-PGPUB; USPAT; USOCR; FPRS;	AND	ON	2007/03/07 16:18
			EPO; JPO; DERWENT;			
522	2	"Reflectivity" with "Sensitivity" with lithography	IBM_TDB US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/07 16:19
			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S23	5014	"R+S"	US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/07 16:19
			FPRS; EPO; JPO; DERWENT; IBM_TD8	1		
S24	16	S23 reflectivity sensitivity	US-PGPUB; USPAT; USOCR; FPRS;	AND	ON	2007/03/07 16:20
		,	EPO; JPO; DERWENT; IBM_TDB			
526	55	S23 lithography .	US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/07 16:20
			FPRS; EPO; JPO; DERWENT; IBM_TDB			
527	13169	Reflect\$8 with optimiz\$8	US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/07 16:21
			FPRS; EPO; JPO; DERWENT;			
S28	3644	(Reflect\$8 optimiz\$8).ab.	US-PGPUB; US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/07 16:21
		·	FPRS; EPO; JPO; DERWENT;			
529	114	S28 lithography	US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/07 16:22
			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S30	37	S29 refraction .	US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/07 16:23
			FPRS; EPO; JPO; DERWENT; IBM_TDB			
532	0	(reflectiv\$6 optimiz&7).ti.	US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/07 16:23
			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S33	27	(reflectiv\$6 optimiz\$7),ti.	US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/07 16:24
			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S34	477	reflectivity optimization multilayer stack	US-PGPUB; USPAT; USOCR; FPRS;	AND	ON	2007/03/07 16:25
-			EPO; JPO; DERWENT; IBM_TDB			
S35	145	reflectivity optimization multilayer stack lithography	US-PGPUB; USPAT; USOCR; FPRS;	AND	ON	2007/03/07 16:34
			EPO; JPO; DERWENT; IBM_TDB			

536	2	S35 parameter extrema variable	US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/07 16:26
			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S37	1	S35 "R+S" .	US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/07 16:29
			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S38	21322	Lithography.ab.	US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/07 16:39
			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S40	0	S38 (optimiz\$7 reflectiv&5).ab.	US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/07 16:35
			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S41	12	S38 (optimiz\$7 reflectiv\$5).ab.	US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/07 16:35
			FPRS; EPO; JPO; DERWENT; IBM_TDB			
542	0	S38 (optimal refraction stack).ab.	US-PGPUB; USPAT; USOCR; FPRS;	AND	ON	2007/03/07 16:40
	_		EPO; JPO; DERWENT; IBM_TDB			
S43	2		US-PGPUB; USPAT; USOCR; FPRS;	AND	ON	2007/03/07 16:40
S44	13	(optim\$8 refraction stack).ab.	EPO; JPO; DERWENT; IBM_TDB US-PGPUB;	AND	ON	2007/03/07 16:44
344	13	(upuliigo reirocuoui stack).au.	USPAT; USOCR; FPRS;	AND	ON	2007/03/07 16:44
545	2	extrema with cost with sensitiv\$6	EPO; JPO; DERWENT; IBM_TDB US-PGPUB;	AND	ON	2007/03/07 16:45
			USPAT; USOCR; FPRS; EPO; JPO;			
546	2	extrema with cost with reflectiv\$6	DERWENT; IBM_TDB US-PGPUB;	AND	ON	2007/03/07 16:45
			USPAT; USOCR; FPRS; EPO; JPO;			
S47	2	extrema with reflectiv\$6 with input	DERWENT; IBM_TDB US-PGPUB; USPAT;	AND	ON	2007/03/07 16:47
			USOCR; FPRS; EPO; JPO;			
548	2	extrema same reflectiv\$6 same multilayer same stack	USPAT;	AND	ON	2007/03/07 16:47
			USOCR; FPRS; EPO; JPO; DERWENT;			
S49	. 54	sensitiv\$6 same reflectiv\$6 same multilayer same stack	IBM_TDB	AND	ON	2007/03/07 16:49
			FPRS; EPO; JPO; DERWENT;			
S50	177134	Photolithography or lithography	IBM_TDB US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/07 16:49
			FPRS; EPO; JPO; DERWENT; IBM_TDB			

551	4	(lithography same optimization) (multilayer with stack)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	AND	ON	2007/03/07 16:52
		· · ·	DERWENT; IBM_TDB			
552	3	S51 reflectiv\$6	US-PGPUB; USPAT; USOCR; FPRS;	AND	ON	2007/03/07 16:52
			EPO; JPO; DERWENT; IBM_TDB			
S53	2	"6471945".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	AND	ON	2007/03/13 15:39
S54	41	("2197719" "3052555" "3664962" "3872021" "3912817" "4148872" "4150112" "4156715" "4156716" "4157385" "4159315" "4160054" "4160820" "4208431" "4217368" "4224345" "4271199" "4352825" "4585649" "4753790" "4828845" "4842762" "4952407" "5017385" "5073389" "5256402" "5380530" "5391315" "569035" "5645821" "5698215" "5713738" "5736175" "5756074" "5824291" "5879728"),PN. OR ("6471945"),URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/03/13 15:41
S56	0	(multilayer stack).ab. thickness "Index of refraction" (optimiz\$5 optimum optimal).ab.	US-PGPUB; USPAT;	AND	ON	2007/03/14 13:33
			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
557	0	(multilayer stack).ab. thickness "index of refraction" (optimiz\$5 or optimum or optimal).ab.	US-PGPUB; USPAT;	AND	ON	2007/03/14 13:34
			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S58	0	(multilayer reflectivity).ab. thickness "index of refraction" (optimiz\$5 or optimum or optimal).ab.	US-PGPUB; USPAT;	AND	ON	2007/03/14 13:34
		·	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
559	0	(multilayer reflectivity (optimiz\$6 or optimum or optimal)).ab. thickness "index of refraction"	US-PGPUB; USPAT;	AND	ON	2007/03/14 13:35
			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S60	21	(multilayer reflectivity (optimiz\$6 or optimum or optimal)).ab. thickness	US-PGPUB; USPAT;	AND	ON	2007/03/14 13:35
			USOCR; FPRS; EPO; JPO; DERWENT;			
S61	10	(multilayer stack reflectivity (optimiz\$6 or optimum or optimal)).ab. thickness	US-PGPUB; USPAT; USOCR; FPRS;	AND	ON	2007/03/14 13:36
663			EPO; JPO; DERWENT; IBM_TDB			
S62	2	(multilayer stack reflectivity sensitivity (optimiz\$6 or optimum or optimal)).ab. thickness	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	AND	ON	2007/03/14 13:37
			DERWENT; IBM_TDB			
\$63	2	(multilayer stack (optimiz\$6 or optimum or optimal)).ab. thickness (reflectivity with sensitivity)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	AND	ON	2007/03/14 13:37
564		(multilinum strate (materials for action))) at (materials in with complete in)	DERWENT; IBM_TDB	4415	011	2007/02/44 42 20
304	2	(multilayer stack (optimiz\$6 or optimum or optimal)).ab. (reflectivity with sensitivity)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	AND	ON	2007/03/14 13:38
S65	13	(multilayer same stack same (optimiz\$6 or optimum or optimal)) (reflectivity with sensitivity)	DERWENT; IBM_TDB US-PGPUB;	AND	ON	2007/03/14 13:39
			USPAT; USOCR; FPRS; EPO; JPO; DERWENT;			
S67	9	. S65 (simulat\$5 or model\$5)	IBM_TDB US-PGPUB;	AND	ON	2007/03/14 13:44
			USPAT; USOCR; FPRS; EPO; JPO; DERWENT;			Source and a second
	L		IBM_TDB		<u> </u>	

S68	10	"optimal reflectivity value"	US-PGPUB; USPAT; USOCR; FPRS;	AND	ON	2007/03/14 13:53
			EPO; JPO; DERWENT; IBM_TD8			23.5
569	0	"optimum reflectivity value"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	AND	ON	2007/03/14 13:53
570	0	"optimiz\$5 reflectivity value"	IBM_TDB US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	AND	ON	2007/03/14 13:47
S71	0	"optimiz\$5 adj3 reflectivity value"	DERWENT; IBM_TDB US-PGPUB; USPAT; USOCR; FPRS;	AND	ON	2007/03/14 13:54
			EPO; JPO; DERWENT; IBM_TDB			
S72	0	"optimiz\$5 with reflectivity with value"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON:	2007/03/14 13:53
S73	0	"optim5 with reflectivity with value" .	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	AND	ON	2007/03/14 13:47
574	0	"optim\$5 with reflectivity with value"	DERWENT; IBM_TDB US-PGPUB; USPAT; USOCR; FPRS;	AND	ON	2007/03/14 13:47
575	2	"optimal reflectance value"	EPO; JPO; DERWENT; IBM_TDB US-PGPUB; USPAT; USOCR;	AND .	ON	2007/03/14 13:53
S76	3	"optimum reflectance value"	FPRS; EPO; JPO; DERWENT; IBM_TDB US-PGPUB; USPAT;	AND	ON	2007/03/14 13:53
			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
\$77		"optimiz\$5 with reflectance with value"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	AND	ON	2007/03/14 13:53
S78	0	"optimiz\$5 adj3 reflectance value" .	IBM_TDB US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	AND	ON	2007/03/14 13:54
579	2149	703/2.ccls.	DERWENT; IBM_TDB US-PGPUB; USPAT; USOCR; FPRS;	AND	ON	2007/03/14 14:31
S80	2	S79 (reflectivity or reflectance) with sensitivity	EPO; JPO; DERWENT; IBM_TD8 US-PGPUB; USPAT;	AND	ON	2007/03/14 14:44
			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S81	0	S79 multilayer stack sensitivity extrema optimize	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	AND	ON	2007/03/14 14:44

S82	0	S79 multilayer stack sensitivity extrema optimiz\$5	US-PGPUB;	AND	ON	2007/03/14 14:44
1 1			USPAT;			
			USOCR;			
!!			FPRS:	i l		
1 1			EPO; JPO;	i		ł
			DERWENT:			
1			IBM_TDB			1

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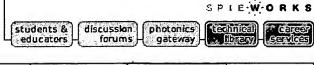


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Abstract

PUBLICATIONS

Optical lithography simulation and photoresist optimization for photomask fabrication

Rathsack, Benjamen M., Tabery, Cyrus E., Scheer, Steven A., Univ. of Texas at Austin; Pochkowski, Mike, Etec Systems, Inc.; Philbin, Cecilia E., Kalk, Franklin D., DuPont Photomasks, Inc.; Henderson, Clifford L., Georgia Institute of Technology; Buck, Peter D., DuPont Photomasks, Inc.; Willson, C. Grant, Univ. of Texas at Austin

Publication:

Proc. SPIE Vol. 3678, p. 1215-1226, Advances in Resist Technology

and Processing XVI, Will E. Conley; Ed.

Publication

Date:

5/1999

Abstract:

The demand for smaller and more uniform features on photomasks is rapidly increasing. The complexity of these patterns is also increasing with the need for optical proximity correction and phase shifting structures. These complex mask features demand unprecedented accuracy in pattern placement and dimensional control. We have conducted research designed to optimize the process for laser pattern generation by improving resolution and process latitude. Lithographic simulation was utilized for process optimization because of the very high cost of mask patterning and metrology experiments.

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